P. W. FEDCZYSZYN.

SHOE FASTENING DEVICE.

APPLICATION FILED JULY 11, 1916.

1,223,574. Patented Apr. 24, 1917.

Fig. 1.

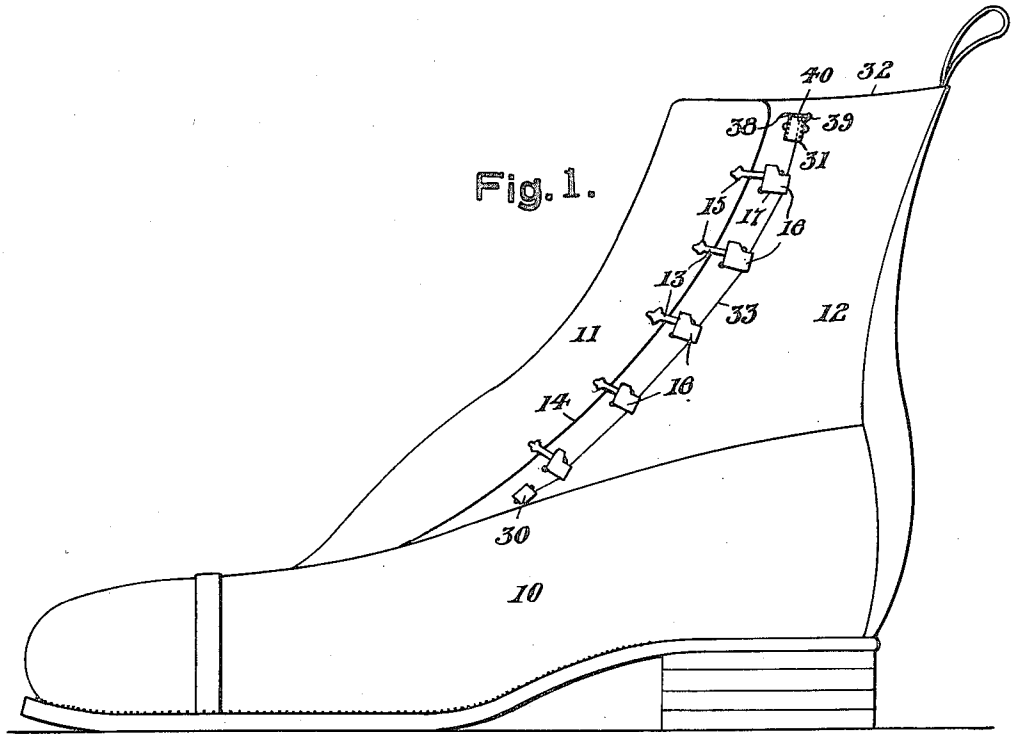


Fig. 2.

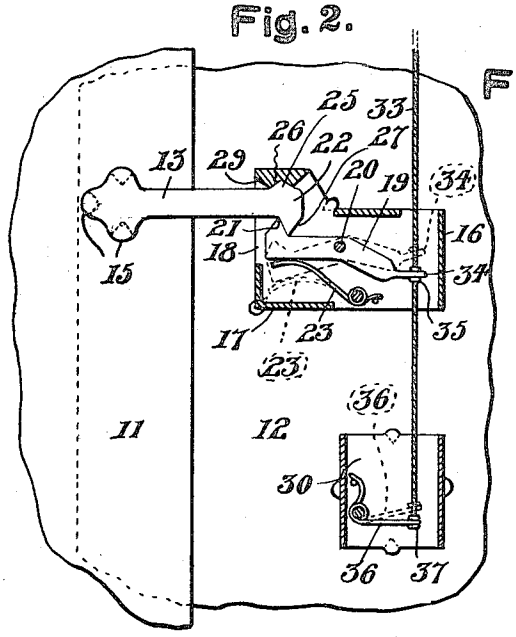


Fig. 3.

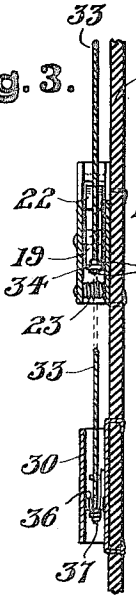


Fig. 4.

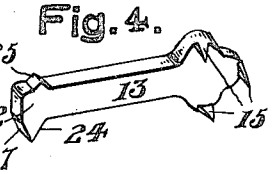
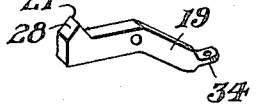


Fig. 5.



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SHOE-FASTENING DEVICE.

1,223,574. Specification of Letters Patent. Patented Apr. 24, 1917.

Application filed July 11, 1916. Serial No. 108,740.

To all whom it may concern:

Be it known that I, PETER W. FEDCZYSZYN, a subject of the Emperor of Austria, residing at Medora, in the Province of Manitoba and Dominion of Canada, have invented certain new and useful Improvements in Shoe-Fastening Devices, of which the following is a specification.

This invention relates to certain new and useful improvements in shoe fastening device.

The primary object of this invention is the provision of a device for fastening the flap of a shoe in its closed position, provision being made for readily releasing the flap throughout its entire length.

A further object of the device is the provision of a plurality of simultaneously releasable fasteners adapted for retaining a flap in its closed relation upon a shoe, the said fasteners being individually secured during the closing of the flap.

The device contemplates a plurality of spring-catches or clasps for connecting the free edge of a shoe flap with the adjacent portion of the shoe, a single releasing means being employed for all of the said catches, the releasing means being resiliently normally positioned assisting in retaining the catches closed.

With these general objects in view and others that will appear as the nature of the invention is better understood, the same consists in the novel combination and arrangement of parts hereinafter more fully described, illustrated in the accompanying drawings, and pointed out in the appended claims.

In the drawings forming a part of this application and in which like-designating characters refer to corresponding parts throughout the several views:—

Figure 1 is a side elevation of a shoe provided with the present device.

Fig. 2 is an enlarged sectional view through the lower portion of the device illustrated upon a portion of the shoe.

Fig. 3 is an enlarged detail transverse sectional view of the lower portion of the device.

Fig. 4 is a perspective view of the flap-carried bolt or arm, and

Fig. 5 is a similar view of the latch bar of the lock or keeper.

The present device being designed for employment as a shoe fastener, the same is herein illustrated in connection with a shoe 10 of the general form of button shoe having a closable flap 11 overlying the adjacent portion of the upper 12 when the shoe is closed or fastened as arranged for wearing, the normal position of the present device being shown upon the shoe in Fig. 1 of the drawings, with the flap of the shoe in its secured closed position.

The flap 11 is provided with a plurality of bolts or arms 13 projecting from the free edge 14 thereof and secured to the flap in any desired manner such as by means of the clutching claws 15.

A receiving lock or keeper 16 is arranged for the free end of each of the arms 13 at a conveniently positioned adjacent point upon the upper side 12, the lock 16 consisting of a casing 17 having an entrance opening 18 in the wall thereof adjacent the flap edge 14 when the flap is closed, while an angular catch bar 19 is pivoted as at 20 within the said casing and is provided with an inverted V-shaped lug 21 adapted to engage over the head 22 of the arm 13 when the said arm is operatively positioned within the said casing. A spring 23 normally maintains the latch bar 19 in engagement with the inner face 24 of the arm head 22, at which time a projection 25 of the said head rests within a notch 26 provided within the casing 17.

An inclined face 27 upon the head 22 will engage an outer inclined face 28 of the latch bar 19 upon the entrance of the arm 13 within the casing, which will allow the arm head to depress the latch bar 19 and slide over the lug 21 thereof into its seating position, it being understood that the projection 25 of the arm will engage one of its inclined surfaces with an inclined surface 29 provided upon the inner side of the top wall of the casing 17 whereby as will be evident the arm 13 may be readily forced within the casing 17 for locking engagement with the latch bar 19.

It being understood that a plurality of the lock casings 17 are arranged upon the shoe upper 12 as illustrated in Fig. 1, an open ended housing 30 is positioned beneath the lower one of the said locks and a similar housing 31 is arranged above all of the locks and adjacent the upper end 32 of the shoe. A releasing cord 33 passes through each of the lock casings 17 and is secured to the

rear free end 34 of each of the latch bars 19 by means of fasteners 35 as best illustrated in Fig. 2 of the drawings by which arrangement, it will be evident that by pulling outwardly upon the cord 37, the latch bars 19 of all of the locks 16 will be simultaneously released. A closing spring 36 carried in the lower housing 30 having its free end engaged as at 37 with the lower end of the cord 33, while an operating lever 38 is pivoted at an upper corner 39, the said upper end of the cord 33 attached substantially centrally thereto as at 40 whereby an upward springing movement imparted to the lever 18 will exert a pull upon the cord 33 thereby releasing the latch bars 19. When the lever 38 is released, the springs 23 return the latch bars 19 to their normal positions and lower the cord 33 which action is assisted by the afore-mentioned spring 36 of the lower housing 30.

While the form of the invention herein shown and described is what is believed to be the preferred embodiment thereof, it is nevertheless to be understood that minor changes may be made therein without departing from the spirit and scope of the invention as claimed.

What I claim as new is:—

1. In a shoe fastener, a latch bar adapted to be attached at one end to a shoe upper and having a head on its free end provided on the lower face with a V-shaped projection and on its upper face with an inverted V-shaped projection, a receiving casing for the headed end of said latch bar having an entrance slot and provided in its top wall with a seat for the inverted V-shaped projection of said latch bar, a locking bolt pivoted within the casing provided with an inverted V-shaped lug to engage the V-shaped projection on the latch bar, and a spring within the casing bearing against the locking bolt.

2. In a shoe fastener, a latch bar, a receiving casing for the free end of said casing having a seat, a head on the latch bar having a projection to engage said seat, a locking bolt in the casing, a lug on said bolt and a projection on the latch bar to engage said lug, and a spring in the casing normally holding the bolt in engagement with the latch bar and the latch bar in engagement with the casing.

In testimony whereof I affix my signature.

PETER W. FEDCZYSZYN.